

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	09/938,507	KONG, WON-KEUN	
	Examiner	Art Unit	
	Nguyen Ngo	2616	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to special amendment of 11/24/2006.
2. ☒ The allowed claim(s) is/are 1-9 and 14.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
|---|---|

## **DETAILED ACTION**

### ***Response to Amendment***

1. This communication is in response to the special amendment of 11/24/2006. Accordingly, Claims 1-9 and 14 are currently pending in the application.

## **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian K. Shelton on 12/7/2006.

The application has been amended as follows:

3. Claims 9 and 14 has been amended as seen in the attached amendment.

### ***Allowable Subject Matter***

4. Claims 1-9 and 14 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

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5. Claim 1, 5, and 9 is allowable over the prior art of record since the cited references taken individually or in combination fail to particularly disclose wherein the first external port value that is allocated to the specific node in response to receiving the access reservation demand from the external node is a new port value and said new port value is allocate when the access reservation demand is received, wherein the address conversion unit receives a response packet from the external node that includes the new port value and converts the new port value to the internal port value such that the response packet is transmitted to the specific node with the internal port value . It is noted that the closest prior art, Kunze et al. (US 6879593) discloses a method for establishing a connection between a node on a first network having a first addressing scheme and at least one node on a second network having a second addressing scheme. However the stated prior art fails to disclose or render obvious to the above underline limitations as claimed.

### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen Ngo whose telephone number is (571) 272-8398. The examiner can normally be reached on Monday-Friday 7am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

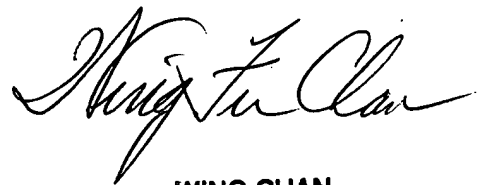
Art Unit: 2616

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

\*\*\* N.N.

**Nguyen Ngo**

United States Patent & Trademark Office  
Patent Examiner AU 2663  
(571) 272-8398



**WING CHAN**  
**SUPERVISORY PATENT EXAMINER**

9. (currently amended): A ~~recording-computer readable~~ medium for recording a network address conversion method for enabling an access to a specific node of a private network, having a private IP address, the ~~recording-computer readable~~ medium ~~recording~~ encoded with a computer program for executing on a computer, said network address conversion method comprising the steps of:

receiving an access reservation demand from an external network node to access the specific node of the private network;

allocating an external port value to the specific node, which is different from the internal port value of the specific node of the private network, in response to receiving the access reservation demand from the external network node, storing the external port value in a mapping table that records a mapping relationship between the first external port value that is allocated and the internal port value of the specific node of the private network, and transmitting the external port value to the external network node; and

converting the external port value into the private IP address of the specific node, when the external network node accesses the specific node by using the external port value,

wherein the first external port value that is allocated to the specific node in response to receiving the access reservation demand from the external node is a new port value and said new port value is allocated when the access reservation demand is received,

wherein a response packet is received from the external node that includes the new port value and the new port value is converted to the internal port value such that the response packet is transmitted to the specific node with the internal port value.

14. (currently amended): The ~~recording~~computer readable medium of claim 9, wherein the storing said first external port value in a mapping table comprises recording a mapping relationship between the first external port value that is allocated and the internal port value of the private network when the access reservation demand is received from the external network node.